

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P674753

Luminaire Tested: **CCP-SA-2B-830-U-T3R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674753
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-830-U-T3R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ T3R distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

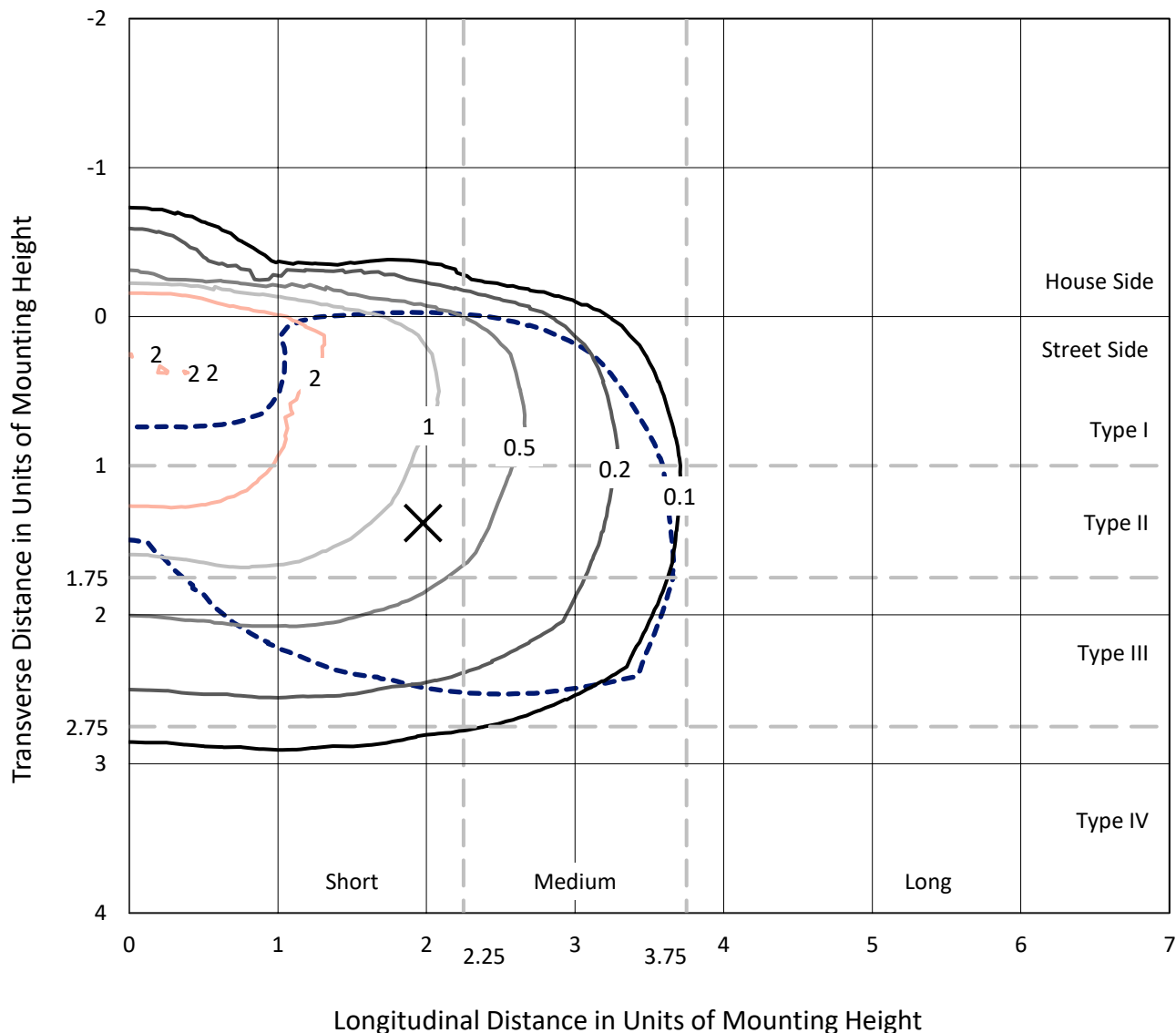
Lumens per Lamp: N/A
Luminaire Lumens: 4352.2 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

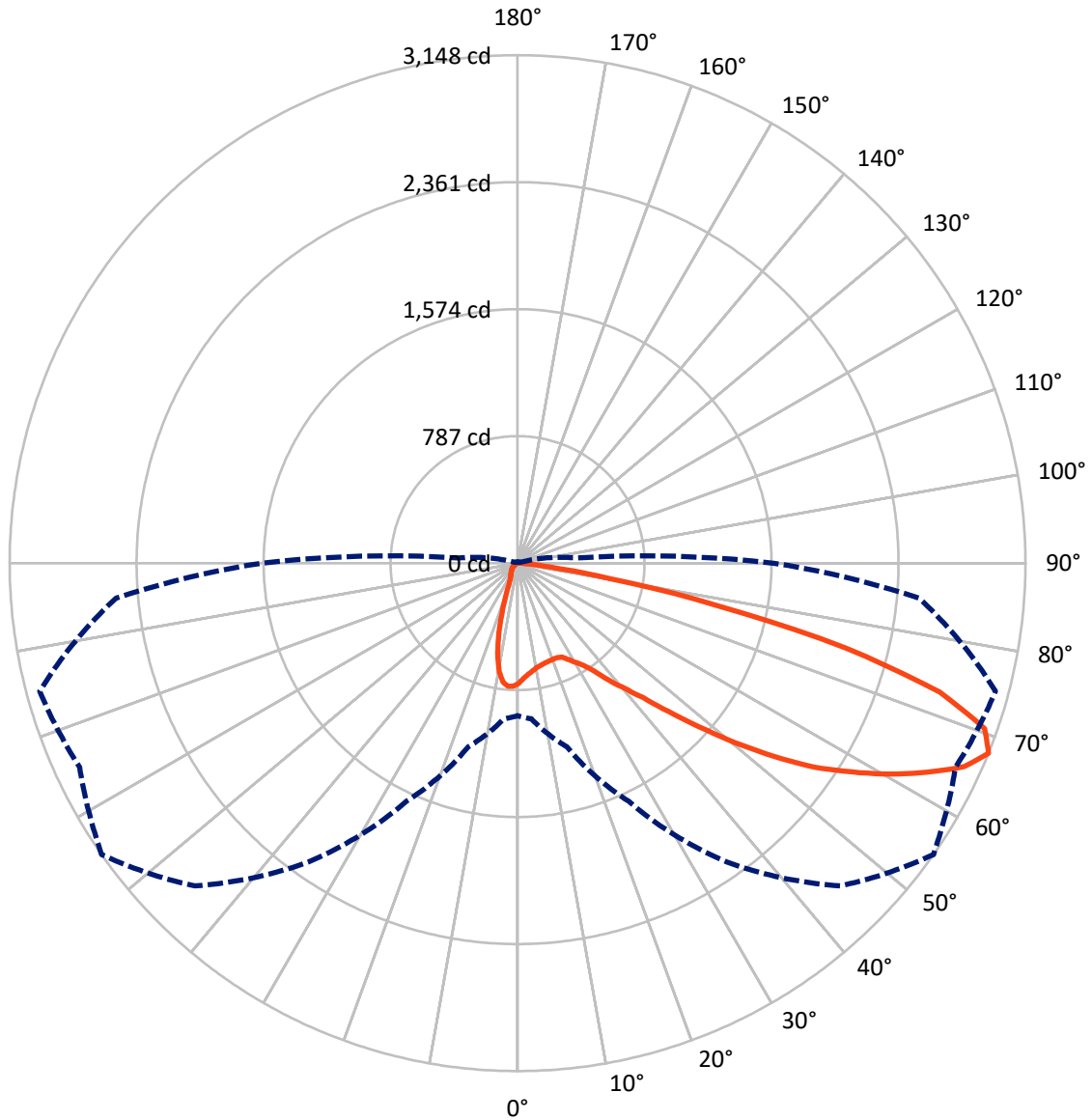
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	391.0	0.0	391.0
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	3961.2	0.0	3961.2
	% Fixture	91.0	0.0	91.0
Total	Lumens	4352.2	0.0	4352.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	1.5
10°-20°	149.0	3.4
20°-30°	239.1	5.5
30°-40°	414.7	9.5
40°-50°	691.5	15.9
50°-60°	1011.2	23.2
60°-70°	1179.1	27.1
70°-80°	572.2	13.1
80°-90°	29.9	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4352.2	100.0
0°-180°	4352.2	100.0



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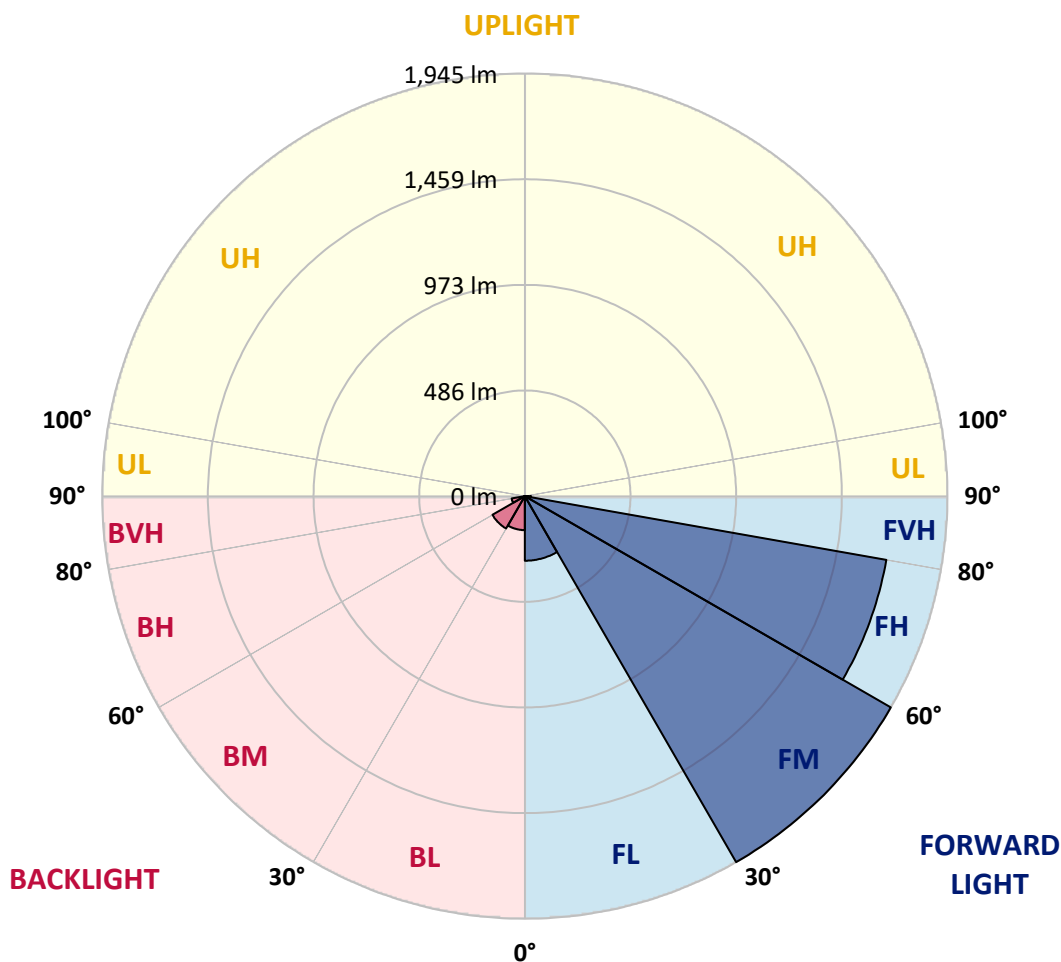
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	297.3	6.8			
FM (30°-60°)	1945.3	44.7			
FH (60°-80°)	1689.6	38.8			G1/1800
FVH (80°-90°)	29.0	0.7			G1/100
BL (0°-30°)	156.3	3.6	B1/500		
BM (30°-60°)	172.1	4.0	B0/220		
BH (60°-80°)	61.7	1.4	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8
2.5°	688.5	692.9	698.5	700.5	707.4	717.0	714.2	712.2	723.0	737.8	742.6
5°	645.6	646.0	654.8	661.2	672.9	682.1	692.1	691.3	711.0	736.2	752.3
7.5°	603.5	604.3	613.5	623.5	640.4	658.4	673.7	672.9	704.5	738.2	768.7
10°	548.2	552.2	563.4	581.0	607.5	636.0	657.2	659.2	697.3	745.8	791.2
12.5°	503.6	505.7	518.1	540.9	572.2	609.5	649.2	648.0	698.9	759.9	820.4
15°	484.8	483.6	491.2	508.1	543.7	590.7	641.2	644.0	704.5	775.9	850.9
17.5°	489.2	488.0	492.0	498.0	523.3	575.0	636.8	641.6	713.4	792.8	879.4
20°	538.1	529.7	522.5	516.1	519.7	562.2	634.0	639.2	718.6	805.6	909.5
22.5°	632.4	621.9	602.7	567.0	543.3	563.0	634.8	641.6	730.2	826.4	945.9
25°	785.9	775.9	734.6	661.6	599.1	591.9	645.6	652.8	757.1	858.1	984.8
27.5°	989.2	966.8	916.7	812.0	691.3	638.0	678.1	686.1	795.2	882.6	1011.3
30°	1158.1	1152.9	1104.7	976.4	818.4	705.7	714.6	719.0	812.4	897.4	1037.8
32.5°	1333.3	1322.5	1278.4	1153.7	966.0	802.4	755.5	757.5	834.9	919.5	1076.3
35°	1485.7	1475.7	1438.8	1317.7	1138.4	932.3	823.2	818.8	881.4	968.0	1128.4
37.5°	1626.8	1625.6	1593.1	1469.6	1293.2	1067.0	923.1	919.5	954.0	1021.3	1199.0
40°	1764.8	1761.6	1733.9	1621.2	1445.6	1201.4	1018.1	1008.9	1015.7	1095.9	1292.0
42.5°	1849.4	1856.2	1865.8	1794.4	1626.4	1359.0	1138.4	1132.8	1131.6	1212.6	1414.3
45°	1895.1	1907.1	1963.7	1957.2	1818.1	1555.1	1309.6	1295.2	1290.4	1373.0	1554.2
47.5°	1939.6	1944.8	2037.4	2076.3	2001.8	1759.6	1516.6	1496.5	1476.9	1568.7	1721.5
50°	1942.4	1950.8	2065.5	2160.1	2155.7	1960.9	1748.7	1731.1	1708.6	1806.9	1884.7
52.5°	1903.1	1920.0	2061.9	2213.1	2251.2	2138.5	1989.7	1975.3	1956.8	2030.2	2022.2
55°	1631.6	1660.1	1991.3	2217.9	2318.1	2290.9	2231.9	2211.9	2193.8	2246.0	2156.9
57.5°	1502.5	1518.6	1777.2	2214.3	2403.6	2432.0	2442.0	2432.8	2407.6	2472.5	2297.7
60°	1425.1	1448.4	1674.9	2174.2	2495.8	2591.6	2654.6	2636.1	2605.3	2694.7	2448.5
62.5°	1332.5	1349.3	1573.1	2058.7	2550.7	2754.0	2853.9	2837.0	2773.3	2899.6	2570.4
65°	1161.7	1186.9	1411.1	1877.0	2476.9	2873.1	3041.5	3035.9	2925.2	3054.4	2603.6
67.5°	945.5	968.4	1177.3	1628.0	2261.2	2828.6	3147.8	3130.2	2994.2	3066.0	2498.2
70°	709.8	722.2	879.8	1243.9	1852.6	2590.8	3070.8	3067.2	2889.6	2893.6	2174.6
72.5°	380.9	415.4	585.0	832.5	1302.8	2098.4	2736.8	2722.3	2578.0	2369.9	1563.9
75°	133.1	143.2	311.6	467.6	707.8	1397.9	2104.4	2070.7	1928.0	1541.4	852.1
77.5°	81.8	89.8	138.3	239.0	275.5	606.7	1264.3	1220.6	1128.4	666.5	291.1
80°	56.5	63.8	92.6	125.1	93.8	196.5	581.8	565.4	435.1	158.8	67.0
82.5°	31.7	38.1	70.2	61.4	37.7	50.9	201.7	186.9	115.9	42.9	22.5
85°	18.4	22.1	49.3	43.3	19.2	18.0	52.5	46.9	30.1	16.0	10.8
87.5°	9.6	12.4	36.1	28.9	11.6	6.4	12.0	11.6	7.6	5.6	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8	745.8
2.5°	751.5	749.5	759.9	763.5	762.7	761.1	765.1	759.9	759.5	758.3	757.1
5°	765.1	768.3	776.7	776.7	765.5	747.0	735.8	720.6	707.8	700.1	698.9
7.5°	785.5	792.0	797.6	780.3	741.8	696.1	647.6	609.5	576.2	559.0	557.4
10°	814.4	820.4	816.0	766.7	684.1	589.5	510.5	431.1	391.4	369.7	369.7
12.5°	848.9	853.7	826.8	732.6	589.1	451.9	346.5	263.1	223.4	197.7	196.1
15°	886.2	887.4	825.2	673.3	471.6	303.6	198.9	146.0	129.1	125.5	124.7
17.5°	918.7	913.9	808.4	585.4	339.6	180.8	126.3	114.3	111.1	111.1	111.1
20°	949.2	933.1	774.7	483.2	217.7	123.1	108.7	105.5	105.5	105.9	105.9
22.5°	982.8	951.2	726.6	369.7	139.9	105.5	101.9	100.2	99.8	101.1	100.6
25°	1022.5	968.8	657.6	255.4	108.3	98.2	96.6	95.0	95.0	95.0	95.0
27.5°	1044.6	966.4	579.0	161.2	94.6	91.0	89.4	87.8	86.6	86.2	86.6
30°	1063.8	952.4	476.4	112.7	85.4	81.4	80.2	78.2	75.8	75.0	75.0
32.5°	1089.1	940.7	368.9	90.6	77.4	73.0	69.4	66.2	62.2	60.5	60.1
35°	1117.2	919.5	270.3	79.8	70.2	64.6	58.9	53.7	48.5	46.9	46.5
37.5°	1152.1	900.2	183.3	73.8	64.2	57.3	49.7	42.5	37.7	36.9	36.9
40°	1199.4	884.2	126.7	68.6	58.5	50.5	41.3	33.7	30.5	29.7	29.7
42.5°	1263.9	871.0	95.8	64.2	53.7	43.7	33.3	27.7	25.3	24.5	24.5
45°	1340.1	850.5	81.0	60.1	48.9	36.9	27.7	23.3	22.1	22.1	22.1
47.5°	1427.5	824.8	73.8	56.1	43.7	30.1	23.3	21.3	20.9	20.9	21.3
50°	1515.8	794.4	68.6	51.3	37.7	25.7	21.3	20.0	20.0	20.5	20.5
52.5°	1575.5	746.6	63.4	46.1	31.7	22.5	20.0	19.6	19.2	19.2	19.2
55°	1633.6	704.9	56.1	40.5	26.5	20.9	19.2	18.8	18.8	18.4	18.4
57.5°	1694.2	672.1	46.9	33.7	22.5	19.6	18.4	18.4	17.6	17.2	17.2
60°	1764.4	643.2	36.1	26.5	19.6	18.4	17.2	16.8	16.0	15.2	15.2
62.5°	1784.8	582.2	27.3	21.3	16.8	16.0	15.6	14.8	12.8	11.2	11.6
65°	1731.5	486.4	21.7	16.8	13.6	13.6	12.4	10.4	8.4	7.2	7.2
67.5°	1584.3	363.3	17.6	13.2	10.8	10.4	8.8	7.6	5.2	4.4	4.4
70°	1305.6	240.2	14.4	10.4	8.8	7.2	6.0	5.6	4.0	3.2	3.2
72.5°	915.1	130.3	12.0	8.4	6.4	4.8	4.0	3.6	2.8	2.4	2.0
75°	483.2	50.1	9.6	6.4	4.0	3.2	2.4	2.4	2.0	1.6	1.6
77.5°	165.6	21.3	6.8	3.6	2.8	2.0	1.6	1.2	1.6	1.2	1.2
80°	39.3	12.4	4.4	2.4	1.6	1.2	1.2	0.8	0.8	0.8	0.8
82.5°	17.2	7.2	2.8	1.6	1.6	1.2	0.8	0.4	0.4	0.4	0.4
85°	11.6	4.4	2.0	1.6	1.2	0.8	0.4	0.4	0.0	0.0	0.0
87.5°	9.2	2.8	1.6	1.6	1.2	0.8	0.4	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)